

M 4.0, 5km NNW of Eastlake, Ohio

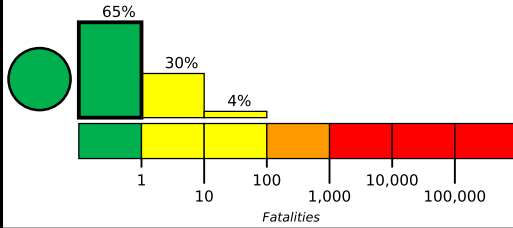
Origin Time: 2019-06-10 14:50:44 UTC (Mon 10:50:44 local)

Location: 41.6995° N 81.4732° W Depth: 2.0 km

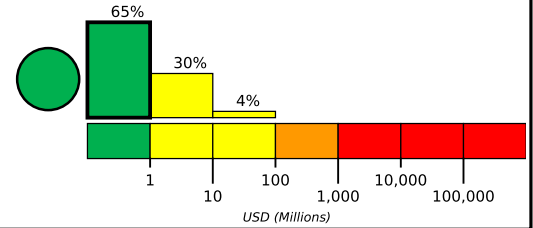
Created: 6 days, 22 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

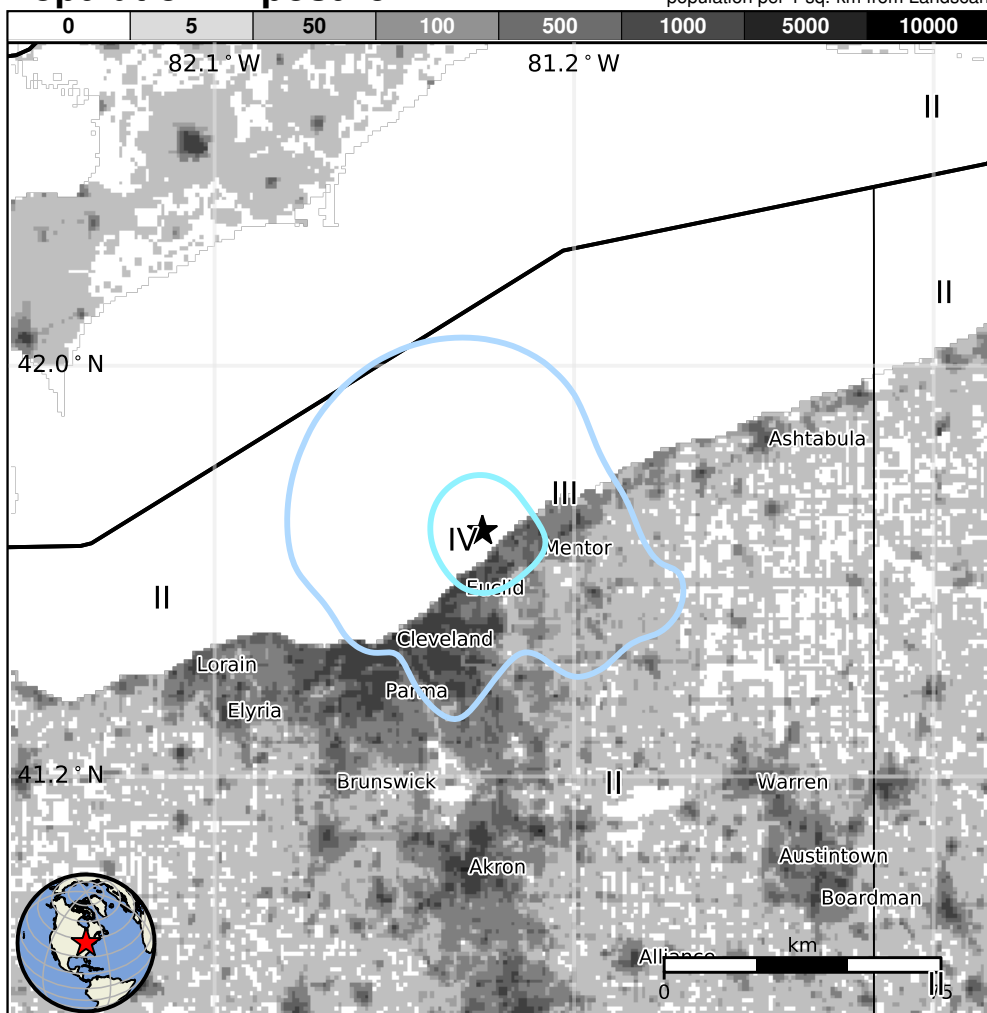


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		1k*	4,360k	171k	6k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1986-07-12	274	4.5	V(21k)	—
1998-09-25	92	4.5	V(24k)	—
1986-01-31	28	5.0	V(165k)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Eastlake	19k
IV	Willowick	14k
IV	Wickliffe	13k
IV	Mentor-on-the-Lake	7k
IV	Euclid	49k
IV	Willoughby	22k
II	Cleveland	397k
II	Canton	73k
II	Youngstown	67k
II	Parma	82k
II	Akron	199k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us70003xny#pager>

bold cities appear on map.

(k = x1000)

Event ID: us70003xny